

What is claimed:

1. A touchscreen, comprising:

a substrate having a first conductive region on a top surface thereof; and

a coversheet having a second conductive region on a bottom surface

5 thereof, the coversheet bottom surface facing and spaced apart from the
substrate top surface, the coversheet further comprising a programmable display,
the coversheet sufficiently flexible that a force applied to the coversheet
causes the first and second conductive regions to make electrical contact in a
location proximate the applied force.

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2. The touchscreen of claim 1, the coversheet sufficiently resilient that, in an
absence of any force applied to the coversheet, no electrical contact is made
between the first and second conductive regions.

15 3. The touchscreen of claim 1, in which a voltage gradient is applied to the
first conductive region for a first position coordinate measurement, and a voltage
gradient is applied to the second conductive region for a second position
coordinate measurement.

20 4. The touchscreen of claim 1, in which a first voltage gradient is applied to
the first conductive region for a first position coordinate measurement and a

second voltage gradient is applied to the first conductive region for a second position coordinate measurement.

5 5. The touchscreen of claim 4, further comprising diodes connected to the first conductive region.

6. The touchscreen of claim 1, wherein the programmable display is a video display.

10 7. The touchscreen of claim 1 wherein the programmable display is an emissive display.

8. The touchscreen of claim 7, the display comprising one or more organic light-emitting diodes ("OLEDs").

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9. The touchscreen of claim 8, the coversheet comprising a flexible polymer substrate on which the one or more OLEDs are fabricated.

10. The touchscreen of claim 8, the coversheet comprising a flexible glass
20 substrate on which the one or more OLEDs are fabricated.

11. The touchscreen of claim 10, the glass substrate having a thickness of about 200 microns or less.

12. The touchscreen of claim 1, wherein the programmable display is a
5 reflective display.

13. The touchscreen of claim 12, the display comprising electronic paper.

14. The touchscreen of claim 1, the coversheet top surface comprising a
10 substantially transparent protective polymer layer.

15. The touchscreen of claim 14, the protective polymer layer configured for use as a writing surface.

15 16. The touchscreen of claim 14, wherein the protective polymer layer is removable.

17. The touchscreen of claim 1, one or both of the first and second conductive regions comprising an opaque material.

18. The touchscreen of claim 1, one or both of the first and second conductive
5 regions comprising a conductive polymer coating.

19. A touchscreen, comprising:
a substrate having a top surface;
a coversheet having a bottom surface and a top surface, the coversheet
10 bottom surface facing the substrate top surface;
a first conductive coating provided on the substrate top surface;
a second conductive coating provided on the coversheet bottom surface;
and
a programmable display configured to generate images visible from the
15 coversheet top surface,
the coversheet sufficiently flexible that a force applied to the coversheet
top surface causes the first and second conductive coatings to make electrical
contact in a location proximate the applied force.

20. 20. The touchscreen of claim 19, further comprising control circuitry
configured to identify two dimensional coordinates of the location of a force
applied to the coversheet.

21. The touchscreen of claim 19, the display comprising organic light-emitting diodes.

5 22. The touchscreen of claim 19, the programmable display comprising electronic paper.

23. A touchscreen, comprising:
an interior touch sensor; and

10 an exterior programmable display positioned in registration with the touch sensor such that, when elements displayed by the display are touched, the touch sensor determines a two-dimensional position of the touch on the display.

24. The of touchscreen of claim 23, the touch sensor comprising

15 a substrate having a first conductive region on an exterior surface thereof, and

a coversheet having a second conductive region on an interior surface thereof, the coversheet interior surface facing and spaced apart from the substrate exterior surface,

20 wherein the coversheet is sufficiently flexible such that a touch to the display causes the first and second conductive regions to make electrical contact in a location proximate the touch.

25. The touchscreen of claim 23, wherein the programmable display is an emissive display.

5 26. The touchscreen of claim 23, wherein the programmable display is a reflective display.

27. The touchscreen of claim 25 or 26, wherein the programmable display is a video display.

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